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Datasheet for ABIN3092570

## FBX038 Protein (AA 1-1188) (Strep Tag)

### 1 Image

#### Overview

Quantity:	1 mg
Target:	FBX038
Protein Characteristics:	AA 1-1188
Origin:	Human
Source:	Tobacco ( <i>Nicotiana tabacum</i> )
Protein Type:	Recombinant
Purification tag / Conjugate:	This FBX038 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

#### Product Details

Sequence: MGPRKKS VKT CIMNNEI PEE MTADETKDYM NQLSHEVLCH IFRYLPLQDI MCMECLSRKL  
KEAVTLYLRV VRRVDLCAGR WWEYMPSGFT DASFLTLLKK MPDVEQLYGL HPRYLERRRV  
RGHEAFSIPG VLEALQACPN LVGVETSHLE LVESIWTYMP HVHILGKFRN RNGAFPPIPE  
NKLKIPGAK IQTLHLVGVN VPEIPCIPML RHLYMKWVRL TKPQPFKDFL CISLRTFVMR  
NCAGPTNSLK YVPLVTGLAS ARNLEHLEMV RVPFLGGLIQ HVVEDSWRSG GFRNLHTIVL  
GACKNALEVD LGYLIITAAR RLHEVRIQPS LTKDGVFSAL KMAELEFPQF ETLHLGYVDE  
FLLQSRMANA DLVKYGLADV VENPGIITDI GMKAVNEVFS CIKYLAIYNC PHLHNPYNWI  
SDHSRWTRLV DINLVRCHAL KLDSFGQFIE LLPSLEFISL DQMFREPPKG CARVGLSAGT  
GIGVSSALVS NQNSNDDNN AQNNNANIHD NNHHHPDDSD EENDFRQDLQ PGEQQFAADA  
LNEMEDIVQE DGEVVAESGN NTPAHSQAI PVDVDEEQAG PSGLQRVVKP TSITVHDSSES  
DDEEDSLELQ EVWIPKNGTR RYSEREKGTG ESVQSRELSV SGKGKTPLRK RYNSHQMGQS  
KQFPLEESSC EKGCQVTSEQ IKADMKAARD IPEKKNKDV YPSCSSTAS TVGNSSSHNT

ASQSPDFVRT VNSGGSSSEPS PTEVDVSRQC ACSPGGSEDS EAMEEGDAES SVCPRCCCHR  
PQESQRRTSR CSDEERPSTS RACVVNGPDG TRSAFSFRTL PQGGSSGPAH DERTNGSGSG  
ATGEDRRGSS QPESCDVQSN EDYPRRPLTR ARSRLSHVLL VSESEVAKTK PRHAMKRKRT  
ADKSTSTSDP VIEDDHVQVL VLKSKNLVGV TMTNCGITDL VLKDCPKMMF IHATRCRVLK  
HLKVENAPIV NREFDYAQCKK LNMDQVLDQI LRMPPERNRI IYLRPMQQVD TLTLEQKLF  
GPYPYHICII HEFSNPPNVR NKVRIRSWMD TIANINQELI KYEFFPEATR SEEDLKKYPK  
YPWGRIYTL EGVVDGAPYS MISDFPWLRS LRAAEPNSFA RYDFEDEES TIYAPRRKGQ  
LSADICMETI GEEISEMRQM KKGVFQRVVA IFIHYCDVNG EPVEDDYI

**Sequence without tag. The proposed Strep-Tag is based on experience s with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**

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### Characteristics:

#### Key Benefits:

- Made in Germany - from design to production - by highly experienced protein experts.
- Protein expressed with ALiCE® and purified by multi-step, protein-specific process to ensure correct folding and modification.
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a **made-to-order protein** and will be made for the first time for your order. Our experts in the lab will ensure that you receive a correctly folded protein.

The big advantage of ordering our **made-to-order proteins** in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

#### Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from *Nicotiana tabacum* c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.
- During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

## Product Details

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### Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

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### Purification:

Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):

1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE.
2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

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### Purity:

>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

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### Endotoxin Level:

Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)

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### Grade:

Crystallography grade

## Target Details

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### Target:

FBXO38

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### Alternative Name:

FBXO38 ([FBXO38 Products](#))

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### Background:

F-box only protein 38,FUNCTION: Substrate recognition component of a SCF (SKP1-CUL1-F-box protein) E3 ubiquitin-protein ligase complex which mediates the ubiquitination and subsequent proteasomal degradation of PDCD1/PD-1, thereby regulating T-cells-mediated immunity (PubMed:30487606). Required for anti-tumor activity of T-cells by promoting the degradation of PDCD1/PD-1, the PDCD1-mediated inhibitory pathway being exploited by tumors to attenuate anti-tumor immunity and facilitate tumor survival (PubMed:30487606). May indirectly stimulate the activity of transcription factor KLF7, a regulator of neuronal differentiation, without promoting KLF7 ubiquitination (By similarity). {ECO:0000250|UniProtKB:Q8BMI0, ECO:0000269|PubMed:30487606}.

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### Molecular Weight:

133.9 kDa

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### UniProt:

[Q6PIJ6](#)

## Application Details

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**Application Notes:** In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

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**Comment:** ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from *Nicotiana tabacum* c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.

During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

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**Restrictions:** For Research Use only

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## Handling

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**Format:** Liquid

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**Buffer:** The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.

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**Handling Advice:** Avoid repeated freeze-thaw cycles.

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**Storage:** -80 °C

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**Storage Comment:** Store at -80°C.

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**Expiry Date:** Unlimited (if stored properly)

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**Image 1.** „Crystallography Grade“ protein due to multi-step, protein-specific purification process